App. No. 10/750,520

Response to Office Action dated May 19, 2006

## Amendments to the Claims:

1 to 12. (canceled).

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13. (currently amended) A method for consolidating a shaped nanophase aluminum powder, comprising the steps of:

providing the shaped powder, which consists essentially of nanophase aluminum;

encompassing said shaped nanophase aluminum powder with a flowable pressure transmitting medium that is heated to a first temperature;

compressing said heated medium at said first temperature to at least about 100,000 psi and thereby consolidating said shaped nanophase aluminum powder;

heating said medium to a second temperature that is between about 700 °F and about 1000 °F, and that is higher than said first temperature; and

compressing said heated medium at said second temperature to at least about 100,000 psi and thereby further consolidating said shaped nanophase aluminum powder.

- 14. (canceled).
- 15. (previously presented) The method according to claim 13, wherein said second temperature ranges between about 775 °F and about 875 °F.
- 16. (original) The method according to claim 13, wherein said first temperature ranges between about 700 °F and about 1000 °F.

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- 17. (original) The method according to claim 16, wherein said first temperature is about 700 °F.
- 18. (previously presented) The method according to claim 13, wherein each of said compressing steps comprises mechanically compacting said heated medium to consolidate said powder.
- 19. (original) The method according to claim 18, wherein said mechanically compacting is performed using a hydraulic press.
- 20. (previously presented) The method according to claim 13, wherein said shaped powder is shaped by enclosing said powder in a container, said powder remaining enclosed in a said container during said encompassing step during which said container is also encompassed with said medium.
- 21. (original) The method according to claim 20, wherein said container is formed of a material that is sufficiently thin to have a negligible effect on consolidating said powder when said medium is compressed.
  - 22. (original) The method according to claim 13, further comprising: prior to said consolidating step, cryomilling and degassing said powder.

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23 to 24. (canceled).

- 25. (previously presented) The method according to claim 13, wherein said shaped powder is a preform mass.
- 26. (currently amended) A method for consolidating a shaped nanophase aluminum powder, comprising the steps of:

providing the shaped powder, which consists essentially of nanophase aluminum;

encompassing said shaped nanophase aluminum powder with a flowable pressure transmitting medium that is heated to a first temperature of about 700 °F;

compressing said heated medium at said first temperature and thereby consolidating said shaped nanophase aluminum powder;

heating said medium to a second temperature that is between about 700 °F and about 1000 °F, and that is higher than said first temperature; and

compressing said heated medium at said second temperature and thereby further consolidating said shaped nanophase aluminum powder.

- 27. (previously presented) The method according to claim 26, wherein said shaped powder is a preform mass.
- 28. (previously presented) The method according to claim 26, wherein said second temperature ranges between about 775 °F and about 875 °F.

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29. (previously presented) The method according to claim 26, further comprising: prior to said consolidating step, cryomilling and degassing said powder.